

## Final Project: Applying Voting Methods to a Homemade Survey

1. Survey Results (10 points)
  - Survey has at least 25 ballots.
  - Survey objective is clearly described
  - Raw data is included as part of your project submission
2. Preference Schedule (10 points)
  - The numbers corresponding to each preference sum to the total number of voters
  - How many people chose each preference is correctly identified
3. Plurality Method (10 pts)
  - Correct identification of the plurality winner
  - Correct identification of the 2nd place, 3rd place, and 4th place winner
  - Supporting computations
4. Instant Runoff Voting (10 pts)
  - Clear description of what happens in each round (including redistribution of votes)
  - Clear communication about who gets eliminated in each round
  - Correct determination of the IRV winner
  - Supporting computations
5. Borda Count (10 points)
  - Clear description of computations
  - Correct determination of the Borda Count winner and 2nd place, 3rd place, and 4th place
  - Supporting computations
6. Copeland's Method (10 points)
  - List all head-to-head comparisons
  - Correctly determine the winner of all head-to-head comparisons
  - Provide computations supporting the determination of the winner using Copeland's method
  - correct determination of the winner and 2nd place, 3rd place, and 4th place
7. Your own new method (10 pts)
  - Provide a clear explanation of what your method is and how to implement it
  - Explain how your method is clearly different from the other four methods
  - Apply your method to determine the winner, and 2nd place, 3rd place, and 4th place
  - Supporting computations
8. Discussion about most fair and least fair methods (20 pts)
  - Objective of your survey is clearly described
  - Strengths and weaknesses of each voting method are assessed
  - Clear discussion of which method is most fair and least fair
  - Justification on why you made those determinations
  - Mathematical analysis to supporting the justification
9. Grammar, mechanics, and following directions (10 points)
  - Use sufficient words and complete sentences in your discussions
  - Use correct grammar and mechanics in your writing
  - Use words and headings to make it clear what you are answering where
  - Computations presented clearly and legibly
  - Follow the directions